Z A C H A R Y   A .   P R I C E

1024 N. Utah St. APT 620 ● Arlington, VA 22201
Phone: (301) 481-1484 ● Email: zprice11@gmail.com

Relevant Skills:

- *Programming Experience:* Ruby, Java, R, and Mathematica (github.com/zaprice)
- *Frameworks/Tools:* Git, SQL, MongoDB, Rails, Sinatra
- Wide mathematical expertise in algebra, linear algebra, analysis, and combinatorics
- Practical experience in statistics, machine learning, and data science

Work Experience:

Sphere of Influence, Inc.   McLean, VA
Junior Data Scientist   April 2014 – Present

- Performed data analysis, designed software architecture, and implemented components of analytics pipelines in language processing and agricultural science for John Deere
- Designed and built an error generation model for calibration of an analytics product
- Computed summary statistics, covariance, and autocorrelation for rasterized geospatial datasets
- Researched and programmed matrix conditioning algorithms to increase the precision of a Mahalanobis distance measure for agglomerative clustering
- Wrote visualization, transformation, aggregation, and cleaning procedures for datasets including: USDA SSURGO soil data; LiDAR, NED, GPS elevation data; natural language input

Software Developer

- Development and maintenance of Ruby on Rails and Java web applications for the DIA
- Built and deployed RESTful web services with Sinatra
- Sole maintainer and code owner of a legacy Ruby codebase

College of William and Mary   Williamsburg, VA
IT Student Technician   June – December 2013

- Provided telephone and walk-in tech support, troubleshooting, and computer hardware repair

Education:

College of William and Mary   August 2010 – January 2014
Bachelor of Science
Major: Mathematics; Minor: Computer Science

- Computer Science coursework: *Data Structures, Algorithms, Programming Languages, Software Development, Computer Organization*

George Mason University   January 2015 – Present
Part-time graduate student in Mathematics

Scholastic Accomplishments:

- Co-author of "The Distribution of Eigenvalues of Doubly Cyclic *Z*+-Matrices" published in the journal *Linear Algebra and its Applications*, Vol. 439/11
- Presented original research at the SUMS research conference and William and Mary Undergraduate Science Research Symposium
- President (2013) and Treasurer (2012-13) of the William and Mary chapter of Pi Mu Epsilon, mathematics honor society

References *available upon request*